

**Sect 230 –Equipment & Component Function IDs – Att.1 Description Sort**

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The “Discipline” indicator represents the engineering discipline most commonly associated with the ID. This is included to aid ID selection, particularly in Attachment 2 which is sorted by discipline first; however, this discipline categorization does not preclude using the acronym for disciplines other than that indicated.

| ID   | Description <--Sorted by           | Ref*   | Discipline* |
|------|------------------------------------|--------|-------------|
| ACTR | Actuator                           | ASME   | Mech        |
| AFD  | Actuator, fire device              | LANL   | Fire Prot   |
| ACL  | After cooler                       | LANL   | Mech        |
| AGT  | Agitator                           | 803.1  | Mech        |
| ACR  | Air conditioner, refrigerant       | LANL   | Mech        |
| ASE  | Air sampler, exhaust stack         | LANL   | Mech        |
| AES  | Air-ejector, steam                 | LANL   | Mech        |
| RLT  | Alarm, access, red-light           | LANL   | I&C         |
| AA   | Alarm, analyzer                    | 5.1    | I&C         |
| ALC  | Alarm, carbon monoxide             | LANL   | I&C         |
| AGA  | Alarm, combustible gas             | LANL   | I&C         |
| CA@  | Alarm, conductivity                | 5.1mod | I&C         |
| IA   | Alarm, current                     | 5.1    | I&C         |
| PDA  | Alarm, differential pressure       | 5.1    | I&C         |
| FA   | Alarm, flow                        | 5.1    | I&C         |
| LA   | Alarm, level                       | 5.1    | I&C         |
| MA   | Alarm, moisture                    | 5.1    | I&C         |
| OIA  | Alarm, oxygen, indicating          | 5.1    | I&C         |
| JA   | Alarm, power                       | 5.1    | I&C         |
| PA   | Alarm, pressure                    | 5.1    | I&C         |
| RA   | Alarm, radiation                   | 5.1    | I&C         |
| XA   | Alarm, special                     | 5.1    | I&C         |
| SA   | Alarm, speed                       | 5.1    | I&C         |
| TA   | Alarm, temperature                 | 5.1    | I&C         |
| VA   | Alarm, vibration                   | 5.1    | I&C         |
| EA   | Alarm, voltage                     | 5.1    | I&C         |
| ZA   | Alarm, zone or position            | 5.1    | I&C         |
| OI   | Analyzer, oxygen                   | 5.1    | I&C         |
| AFP  | Argus Field Panel                  | LANL   | Security    |
| ATT  | Attenuator – sound, etc.           | 803.1  | Mech        |
| BFP  | Backflow preventer                 | 803.1  | Mech        |
| BAL  | Balance                            | ASME   | M&TE        |
| BB   | Battery, banked                    | LANL   | Elec        |
| BTRY | Battery or battery box             | 803.1  | Elec        |
| FCPB | Battery, fire control panel        | LANL   | Fire Prot   |
| BL   | Blower                             | LANL   | Mech        |
| BV   | Blower, vacuum                     | LANL   | Mech        |
| BHW  | Boiler, hot water                  | LANL   | Mech        |
| BS   | Boiler, steam                      | LANL   | Mech        |
| BWS  | Boiler, water supply               | LANL   | Mech        |
| NGN  | Bottle, nitrogen                   | LANL   | Mech        |
| DBX  | Box, drop                          | LANL   | Mech        |
| GB   | Box, glove                         | LANL   | Mech        |
| PBX  | Box, pull                          | 803.1  | Fire Prot   |
| BLDG | Buildings; transportables          | 803.1  | C/S/Arch    |
| DB   | Bus duct (aboveground)             | LANL   | Elec        |
| SSBU | Bus, substation (HV)               | 803.1  | Elec        |
| CAP  | Capacitor, non-pad mounted         | 803    | Elec        |
| CPMD | Capacitor, pad mounted             | LANL   | Elec        |
| CPU  | Central processing unit (computer) | 803.1  | I&C         |
| CB   | Charger, battery                   | LANL   | Elec        |
| CWA  | Chiller, water, absorption         | LANL   | Mech        |

| ID    | Description <--Sorted by                   | Ref*  | Discipline*     |
|-------|--|-------|-----------------|
| CWE   | Chiller, water, evaporative                | LANL  | Mech            |
| CWR   | Chiller, water, refrigerant                | LANL  | Mech            |
| 52    | Circuit Breaker, AC                        | 803.1 | EI Utility Dwgs |
| CBA   | Circuit breaker, air (MV or HV)            | LANL  | Elec            |
| 7     | Circuit Breaker, Anode                     | 803.1 | EI Utility Dwgs |
| 72    | Circuit Breaker, DC                        | 803.1 | EI Utility Dwgs |
| CBE   | Circuit breaker, enclosed (NEMA AB 1 type) | LANL  | Elec            |
| 22    | Circuit Breaker, Equalizer                 | 803.1 | EI Utility Dwgs |
| 41    | Circuit Breaker, Field                     | 803.1 | EI Utility Dwgs |
| CBG   | Circuit breaker, gas (MV or HV)            | LANL  | Elec            |
| LVPCB | Circuit breaker, low voltage               | 1015  | Elec            |
| CBO   | Circuit breaker, oil (MV or HV)            | LANL  | Elec            |
| 42    | Circuit Breaker, Running                   | 803.1 | EI Utility Dwgs |
| 6     | Circuit Breaker, Starting                  | 803.1 | EI Utility Dwgs |
| CBV   | Circuit breaker, vacuum (MV or HV)         | LANL  | Elec            |
| CEO   | Circuit, electric, overhead                | LANL  | Elec            |
| CEU   | Circuit, electric, underground             | LANL  | Elec            |
| CO    | Cleanout                                   | ASPE  | Mech            |
| CCL   | Coil, cooling                              | 803.1 | Mech            |
| CCE   | Coil, cooling, evaporative                 | LANL  | Mech            |
| CCG   | Coil, cooling, glycol                      | LANL  | Mech            |
| HCL   | Coil, heating                              | 803.1 | Mech            |
| CD    | Collector, dust                            | LANL  | Shop            |
| CW    | Column, water                              | LANL  | Mech            |
| CA    | Compressor, air                            | LANL  | Mech            |
| CR    | Compressor, refrigerant                    | LANL  | Mech            |
| CRU   | Condensate recovery unit                   | LANL  | Mech            |
| CRA   | Condenser, refrigerant, air-cooled         | LANL  | Mech            |
| CRE   | Condenser, refrigerant, evaporative        | LANL  | Mech            |
| CTE   | Condenser, turbine exhaust                 | LANL  | Mech            |
| CNTR  | Contact                                    | 803.1 | Elec            |
| 93    | Contact, Field Changing                    | 803.1 | EI Utility Dwgs |
| 29    | Contact, Isolating                         | 803.1 | EI Utility Dwgs |
| 73    | Contact, Load-Resistor                     | 803.1 | EI Utility Dwgs |
| 4     | Contact, Master                            | 803.1 | EI Utility Dwgs |
| 19    | Contact, Starting-To-Running Transition    | 803.1 | EI Utility Dwgs |
| 69    | Control Device, Permissive                 | 803.1 | EI Utility Dwgs |
| ACO   | Control operator, analyzer                 | 803.1 | I&C             |
| CCO   | Control operator, conductivity             | 803.1 | I&C             |
| PDCO  | Control operator, differential pressure    | 803.1 | I&C             |
| FCO   | Control operator, flow                     | 803.1 | I&C             |
| HCO   | Control operator, hand                     | 803.1 | I&C             |
| LCO   | Control operator, level                    | 803.1 | I&C             |
| PCO   | Control operator, pressure                 | 803.1 | I&C             |
| XCO   | Control operator, special                  | 803.1 | I&C             |
| SCO   | Control operator, speed                    | 803.1 | I&C             |
| TCO   | Control operator, temperature              | 803.1 | I&C             |
| FCP   | Control panel, fire                        | 170   | Fire Prot       |
| HCP   | Control panel, halon                       | 170   | Fire Prot       |
| AIK   | Control station, indicating, analyzer      | 5.1   | I&C             |
| BIK   | Control station, indicating, burner        | 5.1   | I&C             |
| CIK   | Control station, indicating, conductivity  | 5.1   | I&C             |
| IIK   | Control station, indicating,               | 5.1   | I&C             |

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| ID   | Description <--Sorted by                           | Ref*   | Discipline* |
|------|--|--------|-------------|
|      | current  |        |             |
| PDIK | Control station, indicating, differential pressure | 5.1    | I&C         |
| FIK  | Control station, indicating, flow                  | 5.1    | I&C         |
| MIK  | Control station, indicating, moisture              | 5.1    | I&C         |
| JKI  | Control station, indicating, power                 | 5.1    | I&C         |
| XIK  | Control station, indicating, special               | 5.1    | I&C         |
| SIK  | Control station, indicating, speed                 | 5.1    | I&C         |
| TIK  | Control station, indicating, temperature           | 5.1    | I&C         |
| EIK  | Control station, indicating, voltage               | 5.1    | I&C         |
| ARK  | Control station, recording, analyzer               | 5.1    | I&C         |
| CRK  | Control station, recording, conductivity           | 5.1    | I&C         |
| PDRK | Control station, recording, differential pressure  | 5.1    | I&C         |
| FRK  | Control station, recording, flow                   | 5.1    | I&C         |
| LRK  | Control station, recording, level                  | 5.1    | I&C         |
| XRK  | Control station, recording, special                | 5.1    | I&C         |
| TRK  | Control station, recording, temperature            | 5.1    | I&C         |
| AC   | Control, analyzer                                  | 5.1    | I&C         |
| BC   | Control, burner                                    | 5.1    | I&C         |
| CC   | Control, conductivity                              | 5.1    | I&C         |
| IC   | Control, current                                   | 5.1    | I&C         |
| ZDC  | Control, deviation                                 | 5.1    | I&C         |
| PDC  | Control, differential pressure                     | 5.1    | I&C         |
| TDC  | Control, differential temperature                  | 5.1    | I&C         |
| FC@  | Control, flow                                      | 5.1mod | I&C         |
| FFC  | Control, flow, ratio                               | 5.1    | I&C         |
| WDC  | Control, force differential                        | 5.1    | I&C         |
| HC   | Control, hand                                      | 5.1    | I&C         |
| AIC  | Control, indicating, analyzer                      | 5.1    | I&C         |
| BIC  | Control, indicating, burner                        | 5.1    | I&C         |
| CIC  | Control, indicating, conductivity                  | 5.1    | I&C         |
| IIC  | Control, indicating, current                       | 5.1    | I&C         |
| ZDIC | Control, indicating, deviation                     | 5.1    | I&C         |
| PDIC | Control, indicating, differential pressure         | 5.1    | I&C         |
| TDIC | Control, indicating, differential temperature      | 5.1    | I&C         |
| FIC  | Control, indicating, flow                          | 5.1    | I&C         |
| FFIC | Control, indicating, flow ratio                    | 5.1    | I&C         |
| FQIC | Control, indicating, flow, quantity                | 5.1    | I&C         |
| WDIC | Control, indicating, force differential            | 5.1    | I&C         |
| HIC  | Control, indicating, hand                          | 5.1    | I&C         |
| LIC  | Control, indicating, level                         | 5.1    | I&C         |
| MIC  | Control, indicating, moisture                      | 5.1    | I&C         |
| JIC  | Control, indicating, power                         | 5.1    | I&C         |
| YIC  | Control, indicating, presence or state             | 5.1    | I&C         |

| ID   | Description <--Sorted by                     | Ref*   | Discipline* |
|------|--|--------|-------------|
| PIC  | Control, indicating, pressure                | 5.1    | I&C         |
| QIC  | Control, indicating, quantity                | 5.1    | I&C         |
| RIC  | Control, indicating, radiation               | 5.1    | I&C         |
| XIC  | Control, indicating, special                 | 5.1    | I&C         |
| SIC  | Control, indicating, speed                   | 5.1    | I&C         |
| TIC  | Control, indicating, temperature             | 5.1    | I&C         |
| KIC  | Control, indicating, time                    | 5.1    | I&C         |
| EIC  | Control, indicating, voltage                 | 5.1    | I&C         |
| WIC  | Control, indicating, weight or force         | 5.1    | I&C         |
| ZIC  | Control, indicating, zone or position        | 5.1    | I&C         |
| LC   | Control, level                               | 5.1    | I&C         |
| MC@  | Control, moisture                            | 5.1mod | I&C         |
| JC   | Control, power                               | 5.1    | I&C         |
| YC   | Control, presence or state                   | 5.1    | I&C         |
| PC@  | Control, pressure                            | 5.1mod | I&C         |
| RC   | Control, radiation                           | 5.1    | I&C         |
| ARC  | Control, recording, analyzer                 | 5.1    | I&C         |
| BRC  | Control, recording, burner                   | 5.1    | I&C         |
| CRC  | Control, recording, conductivity             | 5.1    | I&C         |
| IRC  | Control, recording, current                  | 5.1    | I&C         |
| ZDRC | Control, recording, deviation                | 5.1    | I&C         |
| PDRC | Control, recording, differential pressure    | 5.1    | I&C         |
| TDRC | Control, recording, differential temperature | 5.1    | I&C         |
| FRC  | Control, recording, flow                     | 5.1    | I&C         |
| FQRC | Control, recording, flow, quantity           | 5.1    | I&C         |
| FFRC | Control, recording, flow, ratio              | 5.1    | I&C         |
| WDRC | Control, recording, force differential       | 5.1    | I&C         |
| LRC  | Control, recording, level                    | 5.1    | I&C         |
| MRC  | Control, recording, moisture                 | 5.1    | I&C         |
| ZRC  | Control, recording, position                 | 5.1    | I&C         |
| JRC  | Control, recording, power                    | 5.1    | I&C         |
| PRC  | Control, recording, pressure                 | 5.1    | I&C         |
| QRC  | Control, recording, quantity                 | 5.1    | I&C         |
| RRC  | Control, recording, radiation                | 5.1    | I&C         |
| XRC  | Control, recording, special                  | 5.1    | I&C         |
| SRC  | Control, recording, speed                    | 5.1    | I&C         |
| TRC@ | Control, recording, temperature              | 5.1mod | I&C         |
| KRC  | Control, recording, time                     | 5.1    | I&C         |
| ERC  | Control, recording, voltage                  | 5.1    | I&C         |
| WRC  | Control, recording, weight or force          | 5.1    | I&C         |
| XC   | Control, special                             | 5.1    | I&C         |
| SC   | Control, speed                               | 5.1    | I&C         |
| TC@  | Control, temperature                         | 5.1mod | I&C         |
| KC   | Control, time                                | 5.1    | I&C         |
| EC   | Control, voltage                             | 5.1    | I&C         |
| WC   | Control, weight or force                     | 5.1    | I&C         |
| ZC   | Control, zone or position                    | 5.1    | I&C         |
| CP   | Controller, pneumatic                        | LANL   | I&C         |
| CPF  | Controller, pneumatic, flow                  | LANL   | I&C         |
| PLC  | Controller, programmable logic               | ASME   | I&C         |
| CVVR | Conveyor                                     | 803.1  | Mech        |
| CAE  | Cooler, air, evaporative                     | LANL   | Mech        |

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| ID    | Description <--Sorted by                              | Ref*  | Discipline*     |
|-------|---|-------|-----------------|
| CAW   | Cooler, air, water                                    | LANL  | Mech            |
| WCR   | Cooler, water   | ASME  | Mech            |
| CTO   | Crane, bridge   | LANL  | C/S/Arch        |
| CTG   | Crane, gantry   | LANL  | C/S/Arch        |
| CJ    | Crane, jib  | LANL  | C/S/Arch        |
| CM    | Crane, monorail                                       | LANL  | C/S/Arch        |
| CS    | Crane, shop   | LANL  | C/S/Arch        |
| CRANE | Crane, tires/motor                                    | LANL  | Shop            |
| DMP   | Damper  | 803.1 | Mech            |
| DF    | Damper, fire  | LANL  | Fire Prot       |
| DS    | Damper, smoke   | LANL  | Fire Prot       |
| DHM   | Dehumidifier  | LANL  | Mech            |
| DMN   | Demineralizer   | LANL  | Mech            |
| DSH   | Desuperheater   | LANL  | Mech            |
| 28    | Detector, Flame                                       | 803.1 | EI Utility Dwgs |
| HD    | Detector, heat  | LANL  | Fire Prot       |
| RE    | Detector, radiation                                   | 5.1   | I&C             |
| SMD   | Detector, smoke                                       | LANL  | Fire Prot       |
| 18A   | Device, Accelerating                                  | 803.1 | EI Utility Dwgs |
| 26    | Device, Apparatus Thermal                             | 803.1 | EI Utility Dwgs |
| 38    | Device, Bearing Protective                            | 803.1 | EI Utility Dwgs |
| 35    | Device, Brush-Operating or Slip-Ring Short Circuiting | 803.1 | EI Utility Dwgs |
| 8     | Device, Control Power Disconnecting                   | 803.1 | EI Utility Dwgs |
| 18D   | Device, Decelerating                                  | 803.1 | EI Utility Dwgs |
| 43    | Device, Manual Trans/Select                           | 803.1 | EI Utility Dwgs |
| 34    | Device, Master Sequence                               | 803.1 | EI Utility Dwgs |
| 66    | Device, Notching or Jogging                           | 803.1 | EI Utility Dwgs |
| 12    | Device, Overspeed                                     | 803.1 | EI Utility Dwgs |
| 36    | Device, Polarity or Polarizing Voltage                | 803.1 | EI Utility Dwgs |
| 9     | Device, Reversing                                     | 803.1 | EI Utility Dwgs |
| 31    | Device, Separate Excitation                           | 803.1 | EI Utility Dwgs |
| 57    | Device, Short-Circuiting or Grounding                 | 803.1 | EI Utility Dwgs |
| 15    | Device, Speed or Frequency Matching                   | 803.1 | EI Utility Dwgs |
| 5     | Device, Stopping                                      | 803.1 | EI Utility Dwgs |
| 13    | Device, Synchronous Speed                             | 803.1 | EI Utility Dwgs |
| 23    | Device, Temperature Control                           | 803.1 | EI Utility Dwgs |
| 14    | Device, Underspeed                                    | 803.1 | EI Utility Dwgs |
| DAB   | Diffuser, aeration basin                              | LANL  | Mech            |
| CDD   | Disconnect, circuit                                   | LANL  | Elec            |
| DHO   | Disconnect, hand-operated                             | LANL  | Elec            |
| DMO   | Disconnect, motor operated                            | LANL  | Elec            |
| MDS   | Disinfection system, mixed-oxidant                    | LANL  | Mech            |
| DR    | Door  | 803.1 | C/S/Arch        |
| DAC   | Door, air curtain                                     | LANL  | C/S/Arch        |
| FDE   | Door, fire, electrical                                | LANL  | Fire Prot       |
| FDF   | Door, fire, mechanical                                | LANL  | Fire Prot       |
| FDC   | Door, fire, structural                                | LANL  | Fire Prot       |
| DM    | Door, motorized                                       | LANL  | C/S/Arch        |
| DRE   | Door, roll-up, electric                               | LANL  | C/S/Arch        |
| DRH   | Door, roll-up, hydraulic                              | LANL  | C/S/Arch        |
| DRM   | Door, roll-up, manual                                 | LANL  | C/S/Arch        |
| DRN   | Drain   | 803.1 | Mech            |
| FD    | Drain, floor  | ASME  | Mech            |
| DFL   | Drive, fluid  | LANL  | Mech            |
| VFD   | Drive, variable frequency                             | LANL  | Elec            |
| DAD   | Dryer, air, desiccant                                 | LANL  | Mech            |
| DAR   | Dryer, air, refrigerant                               | LANL  | Mech            |

| ID    | Description <--Sorted by                        | Ref*   | Discipline* |
|-------|---|--------|-------------|
| DUCT  | Duct  | 803.1  | Mech        |
| DW    | Dumbwaiter                                      | ASME   | C/S/Arch    |
| EG    | Electro corrector, gas                          | LANL   | M&TE        |
| EE    | Elevator, electric                              | LANL   | C/S/Arch    |
| EH    | Elevator, hydraulic                             | LANL   | C/S/Arch    |
| ENG   | Engine  | 803.1  | Mech        |
| HVYEQ | Equipment, Heavy                                | LANL   | Shop        |
| ESS   | Equipment, surveillance                         | LANL   | I&C         |
| TSTEQ | Equipment, Test (only when no specific applies) | ASME   | M&TE        |
| EXC   | Exciter   | 803    | Elec        |
| EXC   | Exciter, generator                              | LANL   | Elec        |
| EXT   | Extinguisher, fire                              | LANL   | Fire Prot   |
| EXS   | Extinguishing system, gaseous or halon          | LANL   | Fire Prot   |
| EW    | Eyewash   | LANL   | Mech        |
| FPE   | Fall protection equipment                       | LANL   | C/S/Arch    |
| FAN   | Fan   | 803.1  | Mech        |
| FB    | Fan, booster                                    | LANL   | Mech        |
| FC    | Fan, circulating                                | LANL   | Mech        |
| FCU   | Fan coil unit                                   | 803.1  | Mech        |
| FCD   | Fan, condenser                                  | LANL   | Mech        |
| FCT   | Fan, cooling tower                              | LANL   | Mech        |
| FE    | Fan, exhaust                                    | LANL   | Mech        |
| FRA   | Fan, return, air                                | LANL   | Mech        |
| FS    | Fan, supply                                     | LANL   | Mech        |
| FEN   | Fence   | LANL   | C/S/Arch    |
| FTB   | Field termination box                           | LANL   | Security    |
| FLT   | Filter (water etc.)                             | 803.1  | Mech        |
| FAB   | Filter, air, bag or box                         | LANL   | Mech        |
| FAL   | Filter, air, charcoal                           | LANL   | Mech        |
| FAC   | Filter, air, cleanable                          | LANL   | Mech        |
| FES   | Filter, air, electrostatic                      | LANL   | Mech        |
| FAF   | Filter, air, fire                               | LANL   | Mech        |
| FAH   | Filter, air, HEPA                               | LANL   | Mech        |
| FAM   | Filter, air, mat                                | LANL   | Mech        |
| FAP   | Filter, air, pad                                | LANL   | Mech        |
| FAR   | Filter, air, roughing                           | LANL   | Mech        |
| FO    | Filter, oil                                     | LANL   | Mech        |
| FRL   | Filter, roll                                    | LANL   | Mech        |
| AV    | Final element, analyzer                         | 5.1    | I&C         |
| BZ    | Final element, burner                           | 5.1    | I&C         |
| IZ    | Final element, current                          | 5.1    | I&C         |
| ZDV   | Final element, deviation                        | 5.1    | I&C         |
| PDV   | Final element, differential pressure            | 5.1    | I&C         |
| TDV   | Final element, differential temperature         | 5.1    | I&C         |
| FQV   | Final element, flow, quantity                   | 5.1    | I&C         |
| FV    | Final element, flow, rate                       | 5.1    | I&C         |
| FFV   | Final element, flow, ratio                      | 5.1    | I&C         |
| WDZ   | Final element, force differential               | 5.1    | I&C         |
| HV@   | Final element, hand                             | 5.1mod | I&C         |
| LV    | Final element, level                            | 5.1    | I&C         |
| UV    | Final element, multivariable                    | 5.1    | I&C         |
| ZV    | Final element, position                         | 5.1    | I&C         |
| JV    | Final element, power                            | 5.1    | I&C         |
| YZ    | Final element, presence or state                | 5.1    | I&C         |
| PV@   | Final element, pressure                         | 5.1mod | I&C         |
| QZ    | Final element, quantity                         | 5.1    | I&C         |
| RZ    | Final element, radiation                        | 5.1    | I&C         |

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| ID     | Description <--Sorted by                    | Ref*   | Discipline*     |
|--------|---|--------|-----------------|
| SV@    | Final element, speed                        | 5.1mod | I&C             |
| TV@    | Final element, temperature                  | 5.1mod | I&C             |
| KV@    | Final element, time                         | 5.1mod | I&C             |
| VZ     | Final element, vibration analysis           | 5.1    | I&C             |
| EZ     | Final element, voltage                      | 5.1    | I&C             |
| WZ     | Final element, weight or force              | 5.1    | I&C             |
| FDC@   | Fire Department Connection                  | 170mod | Fire Prot       |
| FRKLFT | Forklift                                    | LANL   | Mobile Eq       |
| FH     | Fume hood                                   | LANL   | Mech            |
| FEH    | Fume hood, exhaust                          | LANL   | Mech            |
| FGF    | Furnace, gas fired                          | LANL   | Mech            |
| GE     | Gate, electric                              | LANL   | C/S/Arch        |
| GH     | Gate, hydraulic                             | LANL   | C/S/Arch        |
| GRBX   | Gearbox                                     | ASME   | Mech            |
| 88     | Generator, Auxiliary Motor or Motor         | 803.1  | EI Utility Dwgs |
| GDE    | Generator, diesel engine                    | LANL   | Elec            |
| MG     | Generator, motor                            | 803.1  | Elec            |
| GNE    | Generator, natural gas engine               | LANL   | Elec            |
| PMG    | Generator, permanent magnet                 | 803.1  | Elec            |
| GNS    | Generator, steam driven                     | LANL   | Elec            |
| 65     | Governor                                    | 803.1  | EI Utility Dwgs |
| GRB    | Grinder, belt                               | LANL   | Shop            |
| GRP    | Grinder, pedestal                           | LANL   | Shop            |
| GRS    | Grinder, surface                            | LANL   | Shop            |
| HX     | Heat exchanger                              | 803.1  | Mech            |
| HXG    | Heat exchanger, glycol                      | LANL   | Mech            |
| HXO    | Heat exchanger, oil                         | LANL   | Mech            |
| HXR    | Heat exchanger, refrigerant                 | LANL   | Mech            |
| HXS    | Heat exchanger, steam                       | LANL   | Mech            |
| HXW    | Heat exchanger, water                       | LANL   | Mech            |
| HUE    | Heater unit, air, electric                  | LANL   | Mech            |
| HUG    | Heater unit, air, gas                       | LANL   | Mech            |
| HUI    | Heater unit, air, infrared                  | LANL   | Mech            |
| HUS    | Heater unit, air, steam                     | LANL   | Mech            |
| HSE    | Heater unit, air, steam-electric            | LANL   | Mech            |
| HUW    | Heater unit, air, water                     | LANL   | Mech            |
| HDA    | Heater, deaerating                          | LANL   | Mech            |
| HDG    | Heater, duct, gas                           | LANL   | Mech            |
| HFH    | Heater, feed water, high-pressure           | LANL   | Mech            |
| HFI    | Heater, feed water, intermediate-pressure   | LANL   | Mech            |
| HFL    | Heater, feed water, low-pressure            | LANL   | Mech            |
| HWE    | Heater, water, electric                     | LANL   | Mech            |
| HWG    | Heater, water, gas                          | LANL   | Mech            |
| HWS    | Heater, water, steam                        | LANL   | Mech            |
| HV     | Heating, ventilation unit                   | LANL   | Mech            |
| HVA    | Heating, ventilation, air conditioning unit | LANL   | Mech            |
| HE     | Hoist, electric                             | LANL   | C/S/Arch        |
| HM     | Hoist, manual                               | LANL   | C/S/Arch        |
| HP     | Hoist, pneumatic                            | LANL   | C/S/Arch        |
| PSX    | Hose  | LANL   | Mech            |
| HAS    | Humidifier, air, steam                      | LANL   | Mech            |
| HAW    | Humidifier, air, water                      | LANL   | Mech            |
| HYD    | Hydrant                                     | 803.1  | Fire Prot       |
| IMM    | Ice maker machine                           | LANL   | C/S/Arch        |
| AI     | Indicator, analyzer                         | 5.1    | I&C             |
| BI     | Indicator, burner                           | 5.1    | I&C             |
| CI     | Indicator, conductivity                     | 5.1    | I&C             |

| ID   | Description <--Sorted by                 | Ref*  | Discipline*  |
|------|--|-------|--------------|
| II   | Indicator, current                       | 5.1   | I&C          |
| ZDI  | Indicator, deviation                     | 5.1   | I&C          |
| PDI  | Indicator, differential pressure         | 5.1   | I&C          |
| TDI  | Indicator, differential temperature      | 5.1   | I&C          |
| FI   | Indicator, flow                          | 5.1   | I&C          |
| FFI  | Indicator, flow, ratio                   | 5.1   | I&C          |
| FQI  | Indicator, flow, totalized               | 5.1   | I&C          |
| WDI  | Indicator, force differential            | 5.1   | I&C          |
| GI   | Indicator, ground                        | 5.1   | I&C          |
| LI   | Indicator, level                         | 5.1   | I&C          |
| MI   | Indicator, moisture                      | 5.1   | I&C          |
| UI   | Indicator, multivariable                 | 5.1   | I&C          |
| JI   | Indicator, power                         | 5.1   | I&C          |
| YI   | Indicator, presence or state             | 5.1   | I&C          |
| PI   | Indicator, pressure                      | 5.1   | I&C          |
| QI   | Indicator, quantity                      | 5.1   | I&C          |
| RI   | Indicator, radiation                     | 5.1   | I&C          |
| XI   | Indicator, special                       | 5.1   | I&C          |
| SI   | Indicator, speed                         | 5.1   | I&C          |
| TI   | Indicator, temperature                   | 5.1   | I&C          |
| KI   | Indicator, time                          | 5.1   | I&C          |
| KQI  | Indicator, time, totalized               | 5.1   | I&C          |
| VI   | Indicator, vibration                     | 5.1   | I&C          |
| EI   | Indicator, voltage                       | 5.1   | I&C          |
| WI   | Indicator, weight or force               | 5.1   | I&C          |
| ZI   | Indicator, zone or position              | 5.1   | I&C          |
| LIL  | Interlock, laser                         | LANL  | I&C          |
| LB   | Isolator, level                          | 803.1 | Mech         |
| JCP  | Jet, condenser, priming                  | LANL  | Mech         |
| LADR | Ladder                                   | 803   | C/S/Arch     |
| LAT  | Lathe                                    | LANL  | Shop         |
| SLS  | Lift station, sewage                     | LANL  | C/S/Arch     |
| LME  | Lift, materials, electric                | LANL  | Mobile Eq    |
| LMH  | Lift, materials, hydraulic               | LANL  | Mobile Eq    |
| LMM  | Lift, materials, mobile                  | LANL  | Mobile Eq    |
| LMP  | Lift, materials, pneumatic               | LANL  | Mobile Eq    |
| LPE  | Lift, personnel, electric                | LANL  | Mobile Eq    |
| LPG  | Lift, personnel, gasoline                | LANL  | Mobile Eq    |
| LPH  | Lift, personnel, hydraulic               | LANL  | Mobile Eq    |
| LPP  | Lift, personnel, pneumatic               | LANL  | Mobile Eq    |
| LEP  | Lift, platform, electric                 | LANL  | Mobile Eq    |
| LWI  | Lift, wheelchair, inclined               | LANL  | C/S/Arch     |
| LWV  | Lift, wheelchair, vertical               | LANL  | C/S/Arch     |
| LTE  | Light, emergency                         | LANL  | Elec         |
| LTNT | Light, exit, non-tritium                 | LANL  | Elec         |
| LTET | Light, exit, tritium                     | LANL  | Elec         |
| LSS  | Light, street                            | LANL  | Elec         |
| LUV  | Light, ultraviolet (e.g., sterilization) | LANL  | Mech         |
| LF   | Lighting fixtures                        | 803.1 | Elec         |
| LN   | Lighting, incandescent                   | LANL  | Elec         |
| LPT  | Lightning protection                     | LANL  | Elec         |
| LET  | Line, electric, transmission             | LANL  | Elec Utility |
| LDC  | Load cell                                | 803.1 | M&TE         |
| LDR  | Loader, front                            | LANL  | Mobile Eq    |
| LMF  | Lock, metal former                       | LANL  | Shop         |
| MACH | Machine                                  | ASME  | Mech         |
| SMF  | Main, force, sewage                      | LANL  | C/S/Arch     |
| MHE  | Manhole, electric                        | LANL  | C/S/Arch     |
| MHS  | Manhole, steam                           | LANL  | C/S/Arch     |
| MWW  | Manhole, waste water                     | LANL  | C/S/Arch     |

**Sect 230 –Equipment & Component Function IDs – Att.1 Description Sort**

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| ID   | Description <--Sorted by                     | Ref*   | Discipline*     |
|------|--|--------|-----------------|
| MANF | Manifold                                     | ASME   | Mech            |
| 1    | Master Element                               | 803.1  | EI Utility Dwgs |
| 75   | Mechanism, Position Changing                 | 803.1  | EI Utility Dwgs |
| MTR  | Meter  | 803.1  | I&C             |
| AMP  | Meter, ammeter                               | LANL   | M&TE            |
| MGD  | Meter, gas, district                         | LANL   | Mech            |
| MGR  | Meter, gas, revenue                          | LANL   | Mech            |
| MHT  | Meter, humidity or temperature               | LANL   | I&C             |
| MMO  | Meter, megohm                                | LANL   | M&TE            |
| MMD  | Meter, multimeter, digital                   | LANL   | M&TE            |
| MPH  | Meter, pH                                    | LANL   | M&TE            |
| MW   | Meter, water                                 | LANL   | I&C             |
| MNC  | Mill, numeric control                        | LANL   | Shop            |
| MM   | Milling machine                              | LANL   | Shop            |
| MISC | Miscellaneous (must get ESM Ch 1 POC apprvl) | ASME   | All             |
| MC   | Mixer, chemical                              | LANL   | Mech            |
| AM   | Modifier, analyzer                           | 5.1    | I&C             |
| CM@  | Modifier, conductivity                       | 5.1mod | I&C             |
| IM   | Modifier, current                            | 5.1    | I&C             |
| PDM  | Modifier, differential pressure              | 5.1    | I&C             |
| TDM  | Modifier, differential temperature           | 5.1    | I&C             |
| FM   | Modifier, flow                               | 5.1    | I&C             |
| FFM  | Modifier, flow, ratio                        | 5.1    | I&C             |
| FQM  | Modifier, flow, totalizer                    | 5.1    | I&C             |
| PIM  | Modifier, indicating, pressure               | 5.1    | I&C             |
| LM   | Modifier, level                              | 5.1    | I&C             |
| MM@  | Modifier, moisture                           | 5.1mod | I&C             |
| JM   | Modifier, power                              | 5.1    | I&C             |
| PM   | Modifier, pressure                           | 5.1    | I&C             |
| RM   | Modifier, radiation                          | 5.1    | I&C             |
| XM   | Modifier, special                            | 5.1    | I&C             |
| SM   | Modifier, speed                              | 5.1    | I&C             |
| TM   | Modifier, temperature                        | 5.1    | I&C             |
| VM@  | Modifier, vibration                          | 5.1mod | I&C             |
| EM   | Modifier, voltage                            | 5.1    | I&C             |
| WM   | Modifier, weight or force                    | 5.1    | I&C             |
| ZM   | Modifier, zone or position                   | 5.1    | I&C             |
| 45   | Monitor, Atmospheric Condition               | 803.1  | EI Utility Dwgs |
| CAM  | Monitor, continuous air                      | LANL   | I&C             |
| 39   | Monitor, Mechanical, Condition               | 803.1  | EI Utility Dwgs |
| MO   | Motor  | 803.1  | Elec            |
| MCC  | Motor control center                         | 803.1  | Elec            |
| NAA  | Notification appliance, audio                | LANL   | Fire Prot       |
| NAAV | Notification appliance, audio visual         | LANL   | Fire Prot       |
| NAV  | Notification appliance, visual               | LANL   | Fire Prot       |
| 84   | Operating Mechanism                          | 803.1  | EI Utility Dwgs |
| OPG  | Orifice plate, gas                           | LANL   | Mech            |
| OVEN | Oven   | LANL   | Mech            |
| CPL  | Panel, control                               | LANL   | I&C             |
| EP   | Panel, emergency power                       | LANL   | Elec            |
| LP   | Panel, lighting                              | 100    | Elec            |
| PP   | Panel, power                                 | 100    | Elec            |
| PPDC | Panel, power, direct current                 | LANL   | Elec            |
| PSD  | Phase shifting device                        | 803.1  | Elec            |
| PE   | Pole, electrical distribution                | LANL   | Elec            |
| PDU  | Power distribution unit                      | 1100   | Elec            |

| ID   | Description <--Sorted by               | Ref*   | Discipline* |
|------|--|--------|-------------|
| JX   | Power supply, electric                 | 5.1    | I&C         |
| HPU  | Power unit, hydraulic                  | LANL   | Mech        |
| DP   | Press, drill                           | LANL   | Shop        |
| PH   | Press, hydraulic                       | LANL   | Shop        |
| AE   | Primary element, analyzer              | 5.1    | I&C         |
| BE   | Primary element, burner                | 5.1    | I&C         |
| CE   | Primary element, conductivity          | 5.1    | I&C         |
| IE   | Primary element, current               | 5.1    | I&C         |
| ZDE  | Primary element, deviation             | 5.1    | I&C         |
| PDE  | Primary element, differential pressure | 5.1    | I&C         |
| FE@  | Primary element, flow                  | 5.1mod | I&C         |
| FQE  | Primary element, flow, quantity        | 5.1    | I&C         |
| WDE  | Primary element, force differential    | 5.1    | I&C         |
| LE   | Primary element, level                 | 5.1    | I&C         |
| ME   | Primary element, moisture              | 5.1    | I&C         |
| PHE  | Primary element, pH                    | 5.1    | I&C         |
| JE   | Primary element, power                 | 5.1    | I&C         |
| PE@  | Primary element, pressure              | 5.1mod | I&C         |
| QE   | Primary element, quantity              | 5.1    | I&C         |
| SESE | Primary element, seismic               | 5.1    | I&C         |
| XE   | Primary element, special               | 5.1    | I&C         |
| SE   | Primary element, speed                 | 5.1    | I&C         |
| TE   | Primary element, temperature           | 5.1    | I&C         |
| KE   | Primary element, time                  | 5.1    | I&C         |
| VE   | Primary element, vibration             | 5.1    | I&C         |
| EE@  | Primary element, voltage               | 5.1mod | I&C         |
| WRE  | Primary element, wear                  | 5.1    | I&C         |
| WE   | Primary element, weight or force       | 5.1    | I&C         |
| ZE   | Primary element, zone or position      | 5.1    | I&C         |
| P    | Pump                                   | 803.1  | Mech        |
| PAC  | Pump, acid or chemical                 | LANL   | Mech        |
| PBF  | Pump, boiler feed                      | LANL   | Mech        |
| PCW  | Pump, chilled or cooling water         | LANL   | Mech        |
| PCR  | Pump, circulating                      | LANL   | Mech        |
| PC   | Pump, condensate                       | LANL   | Mech        |
| PCT  | Pump, cooling tower                    | LANL   | Mech        |
| PDW  | Pump, deionized water                  | LANL   | Mech        |
| PFP  | Pump, fire protection                  | LANL   | Fire Prot   |
| PFO  | Pump, fuel oil                         | LANL   | Mech        |
| PG   | Pump, glycol                           | LANL   | Mech        |
| PHW  | Pump, hot water                        | LANL   | Mech        |
| PDH  | Pump, hot water, domestic (potable)    | LANL   | Mech        |
| PHO  | Pump, hydraulic                        | LANL   | Mech        |
| PO   | Pump, oil                              | LANL   | Mech        |
| PPB  | Pump, pressure, boosting               | LANL   | Mech        |
| PSA  | Pump, sampler air                      | LANL   | Mech        |
| PSW  | Pump, sealant water                    | LANL   | Mech        |
| PSR  | Pump, sewage, raw                      | LANL   | Mech        |
| PS   | Pump, sump                             | LANL   | Mech        |
| PTW  | Pump, tempered water                   | LANL   | Mech        |
| PV   | Pump, vacuum                           | LANL   | Mech        |
| PWT  | Pump, waste treatment                  | LANL   | Mech        |
| PWS  | Pump, water spray                      | LANL   | Mech        |
| RDR  | Reader                                 | 803.1  | I&C         |
| AR   | Recorder, analyzer                     | 5.1    | I&C         |
| BR   | Recorder, burner                       | 5.1    | I&C         |
| CR@  | Recorder, conductivity                 | 5.1mod | I&C         |



## Sect 230 –Equipment &amp; Component Function IDs – Att.1 Description Sort

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| ID   | Description <--Sorted by                       | Ref*   | Discipline*     |
|------|--|--------|-----------------|
| IR   | Recorder, current                              | 5.1    | I&C             |
| ZDR  | Recorder, deviation                            | 5.1    | I&C             |
| PDR  | Recorder, differential pressure                | 5.1    | I&C             |
| TDR  | Recorder, differential temperature             | 5.1    | I&C             |
| FR   | Recorder, flow                                 | 5.1    | I&C             |
| FFR  | Recorder, flow, ratio                          | 5.1    | I&C             |
| FQR  | Recorder, flow, totalized                      | 5.1    | I&C             |
| WDR  | Recorder, force differential                   | 5.1    | I&C             |
| AIR  | Recorder, indicating, analyzer                 | 5.1    | I&C             |
| LR   | Recorder, level                                | 5.1    | I&C             |
| MR   | Recorder, moisture                             | 5.1    | I&C             |
| UR   | Recorder, multivariable                        | 5.1    | I&C             |
| ZR   | Recorder, position                             | 5.1    | I&C             |
| JR   | Recorder, power                                | 5.1    | I&C             |
| JQR  | Recorder, power, totalizing (incl watt-hr mtr) | 5.1    | I&C             |
| YR   | Recorder, presence or state                    | 5.1    | I&C             |
| PR@  | Recorder, pressure                             | 5.1mod | I&C             |
| QR   | Recorder, quantity                             | 5.1    | I&C             |
| RR   | Recorder, radiation                            | 5.1    | I&C             |
| SESR | Recorder, seismic                              | 5.1    | I&C             |
| XR   | Recorder, special                              | 5.1    | I&C             |
| SR   | Recorder, speed                                | 5.1    | I&C             |
| TR   | Recorder, temperature                          | 5.1    | I&C             |
| KR   | Recorder, time                                 | 5.1    | I&C             |
| VR   | Recorder, vibration                            | 5.1    | I&C             |
| ER   | Recorder, voltage                              | 5.1    | I&C             |
| WR   | Recorder, weight or force                      | 5.1    | I&C             |
| RECT | Rectifier                                      | 803.1  | Elec            |
| RUA  | Refrigeration unit, air                        | LANL   | Mech            |
| 90   | Regulating Device                              | 803.1  | EI Utility Dwgs |
| REG  | Regulator, gas bottle                          | LANL   | Mech            |
| DGRS | Regulator, gas, district                       | LANL   | Mech            |
| NGRS | Regulator, natural gas                         | LANL   | Mech            |
| RPG  | Regulator, pressure, gas                       | LANL   | Mech            |
| RPW  | Regulator, pressure, water                     | LANL   | Mech            |
| RV   | Regulator, voltage                             | LANL   | Elec            |
| 67   | Relay, AC Directional Overcurrent              | 803.1  | EI Utility Dwgs |
| 79   | Relay, AC Reclosing                            | 803.1  | EI Utility Dwgs |
| 51   | Relay, AC Time Overcurrent                     | 803.1  | EI Utility Dwgs |
| 74   | Relay, Alarm                                   | 803.1  | EI Utility Dwgs |
| AY   | Relay, analyzer                                | 5.1    | I&C             |
| 30   | Relay, Annunciator                             | 803.1  | EI Utility Dwgs |
| 83   | Relay, Automatic Selective Control or Transfer | 803.1  | EI Utility Dwgs |
| 68   | Relay, Blocking                                | 803.1  | EI Utility Dwgs |
| BY   | Relay, burner                                  | 5.1    | I&C             |
| 85   | Relay, Carrier/Pilot-Wire Receiver             | 803.1  | EI Utility Dwgs |
| 3    | Relay, Checking or Interlocking                | 803.1  | EI Utility Dwgs |
| IY   | Relay, current                                 | 5.1    | I&C             |
| 61   | Relay, Current Balance                         | 803.1  | EI Utility Dwgs |
| 76   | Relay, DC Overcurrent                          | 803.1  | EI Utility Dwgs |
| 82   | Relay, DC Reclosing                            | 803.1  | EI Utility Dwgs |
| ZDY  | Relay, deviation                               | 5.1    | I&C             |
| PDY  | Relay, differential pressure                   | 5.1    | I&C             |
| 87   | Relay, Differential Protective                 | 803.1  | EI Utility Dwgs |
| TDY  | Relay, differential temperature                | 5.1    | I&C             |
| 32   | Relay, Directional Power                       | 803.1  | EI Utility Dwgs |
| 21   | Relay, Distance                                | 803.1  | EI Utility Dwgs |

| ID   | Description <--Sorted by                            | Ref*  | Discipline*     |
|------|---|-------|-----------------|
| 53   | Relay, Exciter or DC Generator                      | 803.1 | EI Utility Dwgs |
| 40   | Relay, Field  | 803.1 | EI Utility Dwgs |
| 56   | Relay, Field Application                            | 803.1 | EI Utility Dwgs |
| FQY  | Relay, flow, quantity                               | 5.1   | I&C             |
| FY   | Relay, flow, rate                                   | 5.1   | I&C             |
| WDY  | Relay, force differential                           | 5.1   | I&C             |
| 81   | Relay, Frequency                                    | 803.1 | EI Utility Dwgs |
| 64   | Relay, Ground Detector (Not CT Secondary)           | 803.1 | EI Utility Dwgs |
| 48   | Relay, Incomplete Sequence                          | 803.1 | EI Utility Dwgs |
| 50   | Relay, Instantaneous Overcurrent (OC)               | 803.1 | EI Utility Dwgs |
| LY   | Relay, level  | 5.1   | I&C             |
| 86   | Relay, Locking-Out                                  | 803.1 | EI Utility Dwgs |
| 49   | Relay, Machine or Transformer Thermal               | 803.1 | EI Utility Dwgs |
| UY   | Relay, multivariable                                | 5.1   | I&C             |
| 78   | Relay, Out-of-Step Protective Phase-Angle Measuring | 803.1 | EI Utility Dwgs |
| 59   | Relay, Overvoltage                                  | 803.1 | EI Utility Dwgs |
| 95   | Relay, Phase Discordance Handling Unit              | 803.1 | EI Utility Dwgs |
| 46   | Relay, Phase-Balance Current or Reverse-Phase       | 803.1 | EI Utility Dwgs |
| 47   | Relay, Phase-Sequence Voltage                       | 803.1 | EI Utility Dwgs |
| ZY   | Relay, position                                     | 5.1   | I&C             |
| JY   | Relay, power  | 5.1   | I&C             |
| 55   | Relay, Power Factor                                 | 803.1 | EI Utility Dwgs |
| YY   | Relay, presence or state                            | 5.1   | I&C             |
| PY   | Relay, pressure                                     | 5.1   | I&C             |
| PR   | Relay, protective                                   | LANL  | Elec            |
| QY   | Relay, quantity                                     | 5.1   | I&C             |
| RY   | Relay, radiation                                    | 5.1   | I&C             |
| 58   | Relay, Rectifier Failure                            | 803.1 | EI Utility Dwgs |
| SY   | Relay, speed  | 5.1   | I&C             |
| 24   | Relay, Static Breaker Failure                       | 803.1 | EI Utility Dwgs |
| TY   | Relay, temperature                                  | 5.1   | I&C             |
| KY   | Relay, time   | 5.1   | I&C             |
| 2    | Relay, Time-Delay Starting or Closing               | 803.1 | EI Utility Dwgs |
| 62   | Relay, Time-Delay Starting or Closing               | 803.1 | EI Utility Dwgs |
| 94   | Relay, Tripping                                     | 803.1 | EI Utility Dwgs |
| 37   | Relay, Undercurrent or Underpower                   | 803.1 | EI Utility Dwgs |
| 27   | Relay, Undervoltage                                 | 803.1 | EI Utility Dwgs |
| 44   | Relay, Unit Sequence Starting                       | 803.1 | EI Utility Dwgs |
| VY   | Relay, vibration analysis                           | 5.1   | I&C             |
| EY   | Relay, voltage                                      | 5.1   | I&C             |
| 92   | Relay, Voltage and Power Directional                | 803.1 | EI Utility Dwgs |
| 91   | Relay, Voltage Directional                          | 803.1 | EI Utility Dwgs |
| 60   | Relay, Voltage or Current Balance                   | 803.1 | EI Utility Dwgs |
| WY   | Relay, weight or force                              | 5.1   | I&C             |
| RTU  | Remote terminal unit                                | LANL  | I&C             |
| ROU  | Reverse osmosis unit                                | 803.1 | Mech            |
| 70   | Rheostat  | 803.1 | EI Utility Dwgs |
| RGNG | Rigging (slings, shackles, etc)                     | ASME  | C/S/Arch        |
| RPP  | Road & park lots, paved                             | LANL  | C/S/Arch        |
| RUP  | Road & park lots, unpaved                           | LANL  | C/S/Arch        |

## Sect 230 –Equipment &amp; Component Function IDs – Att.1 Description Sort

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| ID   | Description <--Sorted by               | Ref*   | Discipline* |
|------|--|--------|-------------|
| RBE  | Road-block, electric                   | LANL   | C/S/Arch    |
| RBH  | Road-block, hydraulic                  | LANL   | C/S/Arch    |
| RMF  | Roller, metal forming                  | LANL   | Shop        |
| RS   | Roof section                           | LANL   | C/S/Arch    |
| RPD  | Rupture disc                           | 803.1  | Mech        |
| PSE  | Safety device, pressure                | 5.1    | Mech        |
| TSE  | Safety device, temperature             | 5.1    | Mech        |
| SBL  | Sand blaster                           | LANL   | Shop        |
| SD   | Sander                                 | LANL   | Shop        |
| SAW  | Saw                                    | LANL   | Shop        |
| SB   | Screen, bar, mechanical                | LANL   | Mech        |
| TQS  | Screwdriver, torque                    | LANL   | M&TE        |
| SF   | Scrubber, fume                         | LANL   | Mech        |
| SCBA | Self Contained Breathing Apparatus     | LANL   | Mech        |
| SEP  | Separator                              | 803.1  | Mech        |
| SO   | Separator, oil                         | LANL   | Mech        |
| SG   | Shaker, graphite                       | LANL   | Shop        |
| SMC  | Shear, metal cutting                   | LANL   | Shop        |
| SHD  | Shower, decontamination                | LANL   | Mech        |
| SHS  | Shower, safety                         | LANL   | Mech        |
| BG   | Sight glass, burner                    | 5.1    | I&C         |
| FG   | Sight glass, flow                      | 5.1    | I&C         |
| LG   | Sight glass, level                     | 5.1    | I&C         |
| SNK  | Sink                                   | 803.1  | Mech        |
| S    | Siren                                  | LANL   | I&C         |
| SLW  | Slinger, water spray                   | LANL   | Mech        |
| SRNK | Sprinkler (head)                       | 803.1  | Fire Prot   |
| SPF  | Sprinkler, anti-freeze                 | LANL   | Fire Prot   |
| SPD  | Sprinkler, dry pipe                    | LANL   | Fire Prot   |
| SPA  | Sprinkler, preaction                   | LANL   | Fire Prot   |
| SPW  | Sprinkler, wet pipe                    | LANL   | Fire Prot   |
| ES   | Stack, exhaust                         | LANL   | C/S/Arch    |
| SPH  | Standpipe                              | LANL   | Fire Prot   |
| MSTR | Starter, motor                         | 803.1  | Elec        |
| SCR  | Strainer                               | LANL   | Mech        |
| SUB  | Substation (HV)                        | LANL   | Elec        |
| SUS  | Substation, unit, secondary            | LANL   | Elec        |
| AS   | Switch, analyzer                       | 5.1    | I&C         |
| ASH  | Switch, analyzer, high                 | 5.1    | I&C         |
| ASHL | Switch, analyzer, high or low          | 5.1    | I&C         |
| ASL  | Switch, analyzer, low                  | 5.1    | I&C         |
| BSH  | Switch, burner, high                   | 5.1    | I&C         |
| BSHL | Switch, burner, high low               | 5.1    | I&C         |
| BSL  | Switch, burner, low                    | 5.1    | I&C         |
| CS@  | Switch, conductivity                   | 5.1mod | I&C         |
| IS   | Switch, current                        | 5.1    | I&C         |
| ISH  | Switch, current, high                  | 5.1    | I&C         |
| ISHL | Switch, current, high or low           | 5.1    | I&C         |
| ISL  | Switch, current, low                   | 5.1    | I&C         |
| ZDSH | Switch, deviation, high                | 5.1    | I&C         |
| ZDSL | Switch, deviation, low                 | 5.1    | I&C         |
| PDS  | Switch, differential pressure          | 5.1    | I&C         |
| PDSH | Switch, differential pressure, high    | 5.1    | I&C         |
| PDSL | Switch, differential pressure, low     | 5.1    | I&C         |
| TDS  | Switch, differential temperature       | 5.1    | I&C         |
| TDSH | Switch, differential temperature, high | 5.1    | I&C         |
| TDSL | Switch, differential temperature, low  | 5.1    | I&C         |

| ID   | Description <--Sorted by                  | Ref*   | Discipline*     |
|------|---|--------|-----------------|
| 80   | Switch, Flow                              | 803.1  | EI Utility Dwgs |
| FS@  | Switch, flow                              | 5.1mod | I&C             |
| FSH  | Switch, flow, high                        | 5.1    | I&C             |
| FSHL | Switch, flow, high or low                 | 5.1    | I&C             |
| FSL  | Switch, flow, low                         | 5.1    | I&C             |
| FQSH | Switch, flow, quantity, high              | 5.1    | I&C             |
| FQSL | Switch, flow, quantity, low               | 5.1    | I&C             |
| FFS  | Switch, flow, ratio                       | 5.1    | I&C             |
| FFSH | Switch, flow, ratio, high                 | 5.1    | I&C             |
| FFSL | Switch, flow, ratio, low                  | 5.1    | I&C             |
| FQS  | Switch, flow, totalized                   | 5.1    | I&C             |
| WDSH | Switch, force differential, high          | 5.1    | I&C             |
| WDSL | Switch, force differential, low           | 5.1    | I&C             |
| HS   | Switch, hand                              | 5.1    | I&C             |
| AIS  | Switch, indicating, analyzer              | 5.1    | I&C             |
| CIS  | Switch, indicating, conductivity          | 5.1    | I&C             |
| IIS  | Switch, indicating, current               | 5.1    | I&C             |
| PDIS | Switch, indicating, differential pressure | 5.1    | I&C             |
| FIS  | Switch, indicating, flow                  | 5.1    | I&C             |
| HIS  | Switch, indicating, hand                  | 5.1    | I&C             |
| LIS  | Switch, indicating, level                 | 5.1    | I&C             |
| MIS  | Switch, indicating, moisture              | 5.1    | I&C             |
| PIS  | Switch, indicating, pressure              | 5.1    | I&C             |
| RIS  | Switch, indicating, radiation             | 5.1    | I&C             |
| XIS  | Switch, indicating, special               | 5.1    | I&C             |
| SIS  | Switch, indicating, speed                 | 5.1    | I&C             |
| TIS  | Switch, indicating, temperature           | 5.1    | I&C             |
| KIS  | Switch, indicating, time                  | 5.1    | I&C             |
| FQIS | Switch, indicating, totalizing, flow      | 5.1    | I&C             |
| VIS  | Switch, indicating, vibration             | 5.1    | I&C             |
| EIS  | Switch, indicating, voltage               | 5.1    | I&C             |
| WIS  | Switch, indicating, weight or force       | 5.1    | I&C             |
| ZIS  | Switch, indicating, zone or position      | 5.1    | I&C             |
| 71   | Switch, Level                             | 803.1  | EI Utility Dwgs |
| LS   | Switch, level                             | 5.1    | I&C             |
| LSH  | Switch, level, high                       | 5.1    | I&C             |
| LSHL | Switch, level, high or low                | 5.1    | I&C             |
| LSL  | Switch, level, low                        | 5.1    | I&C             |
| ZS   | Switch, limit, zone or position           | 5.1    | I&C             |
| 89   | Switch, Line                              | 803.1  | EI Utility Dwgs |
| MS@  | Switch, moisture                          | 5.1mod | I&C             |
| SPM  | Switch, pad mounted                       | LANL   | Elec            |
| 33   | Switch, Position                          | 803.1  | EI Utility Dwgs |
| ZSH  | Switch, position, high                    | 5.1    | I&C             |
| ZSHL | Switch, position, high or low             | 5.1    | I&C             |
| ZSL  | Switch, position, low                     | 5.1    | I&C             |
| JS   | Switch, power                             | 5.1    | I&C             |
| JSH  | Switch, power, high                       | 5.1    | I&C             |
| JSHL | Switch, power, high or low                | 5.1    | I&C             |
| JSL  | Switch, power, low                        | 5.1    | I&C             |
| YSH  | Switch, presence or state, high           | 5.1    | I&C             |
| YSL  | Switch, presence or state, low            | 5.1    | I&C             |
| 63   | Switch, Pressure                          | 803.1  | EI Utility Dwgs |
| PS@  | Switch, pressure                          | 5.1mod | I&C             |
| PSH  | Switch, pressure, high                    | 5.1    | I&C             |
| PSHL | Switch, pressure, high or low             | 5.1    | I&C             |
| PSL  | Switch, pressure, low                     | 5.1    | I&C             |

**Sect 230 –Equipment & Component Function IDs – Att.1 Description Sort**

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| ID   | Description <--Sorted by                   | Ref*   | Discipline*     |
|------|--|--------|-----------------|
| QSH  | Switch, quantity, high                     | 5.1    | I&C             |
| QSHL | Switch, quantity, high or low              | 5.1    | I&C             |
| QSL  | Switch, quantity, low                      | 5.1    | I&C             |
| RSH  | Switch, radiation, high                    | 5.1    | I&C             |
| RSHL | Switch, radiation, high or low             | 5.1    | I&C             |
| RSL  | Switch, radiation, low                     | 5.1    | I&C             |
| TRS@ | Switch, recording, temperature             | 5.1mod | I&C             |
| 17   | Switch, Shunting or Discharge              | 803.1  | EI Utility Dwgs |
| SS   | Switch, speed                              | 5.1    | I&C             |
| SSH  | Switch, speed, high                        | 5.1    | I&C             |
| SSHL | Switch, speed, high or low                 | 5.1    | I&C             |
| SSL  | Switch, speed, low                         | 5.1    | I&C             |
| TS@  | Switch, temperature                        | 5.1mod | I&C             |
| TSH  | Switch, temperature, high                  | 5.1    | I&C             |
| TSHL | Switch, temperature, high or low           | 5.1    | I&C             |
| TSL  | Switch, temperature, low                   | 5.1    | I&C             |
| KSH  | Switch, time, high                         | 5.1    | I&C             |
| KSHL | Switch, time, high or low                  | 5.1    | I&C             |
| KSL  | Switch, time, low                          | 5.1    | I&C             |
| KS   | Switch, timer                              | 5.1    | I&C             |
| ATS  | Switch, transfer, automatic                | 1100   | Elec            |
| MTS  | Switch, transfer, manual                   | 100    | Elec            |
| ST   | Switch, transformer                        | LANL   | Elec            |
| AITs | Switch, transmitting, indicating, analyzer | 5.1    | I&C             |
| 10   | Switch, Unit Sequence                      | 803.1  | EI Utility Dwgs |
| SV   | Switch, vacuum                             | LANL   | Elec            |
| VS   | Switch, vibration                          | 5.1    | I&C             |
| VSH  | Switch, vibration, high                    | 5.1    | I&C             |
| VSHL | Switch, vibration, high or low             | 5.1    | I&C             |
| VSL  | Switch, vibration, low                     | 5.1    | I&C             |
| ESH  | Switch, voltage, high                      | 5.1    | I&C             |
| ESHL | Switch, voltage, high or low               | 5.1    | I&C             |
| ESL  | Switch, voltage, low                       | 5.1    | I&C             |
| WSH  | Switch, weight or force, high              | 5.1    | I&C             |
| WSHL | Switch, weight or force, high or low       | 5.1    | I&C             |
| WSL  | Switch, weight or force, low               | 5.1    | I&C             |
| SWBD | Switchboard (NEMA)                         | 100    | Elec            |
| SWGR | Switchgear (ANSI)                          | 803.1  | Elec            |
| 25   | Synchronizing or Synchronism-Check Drive   | 803.1  | EI Utility Dwgs |
| SYN  | Synchroscope                               | 803.1  | I&C             |
| SYS  | System (the entire OPsystem or subsystem)  | ASME   | All             |
| TBL  | Table                                      | LANL   | Mech            |
| TK   | Tank                                       | 803.1  | Mech            |
| TAC  | Tank, acid or chemical                     | LANL   | Mech            |
| TCI  | Tank, chemical injection                   | LANL   | Mech            |
| TCA  | Tank, compressed air                       | LANL   | Mech            |
| TCF  | Tank, condensate, flash                    | LANL   | Mech            |
| TCS  | Tank, condensate, steam                    | LANL   | Mech            |
| TCW  | Tank, condensate, water                    | LANL   | Mech            |
| TX   | Tank, expansion                            | LANL   | Mech            |
| TG   | Tank, glycol                               | LANL   | Mech            |
| THP  | Tank, hydraulic pressure                   | LANL   | Mech            |
| TO   | Tank, oil                                  | LANL   | Mech            |
| TPWS | Tank, potable water, storage               | LANL   | Mech            |
| TRC  | Tank, refrigerant                          | LANL   | Mech            |
| TRS  | Tank, retention or storage                 | LANL   | Mech            |
| TSA  | Tank, separator, air                       | LANL   | Mech            |

| ID     | Description <--Sorted by                          | Ref*   | Discipline*  |
|--------|---|--------|--------------|
| TV     | Tank, vacuum                                      | LANL   | Mech         |
| TWT    | Tank, waste treatment                             | LANL   | Mech         |
| TWC    | Tank, water, chilled or cooling                   | LANL   | Mech         |
| TWD    | Tank, water, deionized or demineralized           | LANL   | Mech         |
| TWH    | Tank, water, hot                                  | LANL   | Mech         |
| TWS    | Tank, water, sealant                              | LANL   | Mech         |
| TEL    | Telephone   | 803.1  | Other        |
| TELE   | Television  | 803.1  | Other        |
| AP     | Test point, analyzer                              | 5.1    | I&C          |
| BP     | Test point, burner                                | 5.1    | I&C          |
| FP     | Test point, flow                                  | 5.1    | I&C          |
| PP@    | Test point, pressure                              | 5.1mod | I&C          |
| TP     | Test point, temperature                           | 5.1    | I&C          |
| CBT    | Test set, relay, overload, and or circuit breaker | LANL   | M&TE         |
| GX     | Tester, balance                                   | LANL   | M&TE         |
| GXT    | Tester, gas                                       | LANL   | M&TE         |
| TQT    | Tester, torque                                    | LANL   | M&TE         |
| TH     | Thermostat  | 803.1  | I&C          |
| TOILET | Toilet  | LANL   | Shop         |
| TOOL   | Tools and tooling                                 | LANL   | Shop         |
| IQ     | Totalizer, current                                | 5.1    | I&C          |
| FQ     | Totalizer, flow                                   | 5.1    | I&C          |
| JWHQ   | Totalizer, power, watt-hour                       | 5.1    | I&C          |
| KQ     | Totalizer, time                                   | 5.1    | I&C          |
| EQ     | Totalizer, voltage                                | 5.1    | I&C          |
| TC     | Tower, cooling                                    | LANL   | Mech         |
| TLA    | Tower, electric, PNM LA                           | LANL   | Elec Utility |
| TMP    | Tower, electric, PNM MP                           | LANL   | Elec Utility |
| TNL    | Tower, electric, PNM NL                           | LANL   | Elec Utility |
| TTE    | Tower, electric, PNM TE                           | LANL   | Elec Utility |
| TRCTR  | Tractor   | LANL   | Shop         |
| TRLR   | Trailer   | ASME   | Shop         |
| XFMR   | Transformer (LV)                                  | 803.1  | Elec         |
| XFRD   | Transformer, distribution (MV)                    | LANL   | Elec         |
| XFRP   | Transformer, power (HV)                           | LANL   | Elec         |
| XFRR   | Transformer, rectifier                            | LANL   | Elec         |
| AT     | Transmitter, analyzer                             | 5.1    | I&C          |
| BT     | Transmitter, burner                               | 5.1    | I&C          |
| CT     | Transmitter, conductivity                         | 5.1    | I&C          |
| IT     | Transmitter, current                              | 5.1    | I&C          |
| ZDT    | Transmitter, deviation                            | 5.1    | I&C          |
| PDT    | Transmitter, differential pressure                | 5.1    | I&C          |
| TDT    | Transmitter, differential temperature             | 5.1    | I&C          |
| FT     | Transmitter, flow                                 | 5.1    | I&C          |
| FQT    | Transmitter, flow, ratio                          | 5.1    | I&C          |
| FQT    | Transmitter, flow, totalizer                      | 5.1    | I&C          |
| WDT    | Transmitter, force differential                   | 5.1    | I&C          |
| AIT    | Transmitter, indicating, analyzer                 | 5.1    | I&C          |
| BIT    | Transmitter, indicating, burner                   | 5.1    | I&C          |
| CIT    | Transmitter, indicating, conductivity             | 5.1    | I&C          |
| IIT    | Transmitter, indicating, current                  | 5.1    | I&C          |
| ZDIT   | Transmitter, indicating, deviation                | 5.1    | I&C          |
| PDIT   | Transmitter, indicating, differential pressure    | 5.1    | I&C          |
| TDIT   | Transmitter, indicating, differential temperature | 5.1    | I&C          |



**Sect 230 –Equipment & Component Function IDs – Att.1 Description Sort**

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| ID   | Description <--Sorted by                         | Ref*  | Discipline*     |
|------|--|-------|-----------------|
| FIT  | Transmitter, indicating, flow                    | 5.1   | I&C             |
| FQIT | Transmitter, indicating, flow, quantity          | 5.1   | I&C             |
| WDIT | Transmitter, indicating, force differential      | 5.1   | I&C             |
| LIT  | Transmitter, indicating, level                   | 5.1   | I&C             |
| MIT  | Transmitter, indicating, moisture                | 5.1   | I&C             |
| ZIT  | Transmitter, indicating, position                | 5.1   | I&C             |
| JIT  | Transmitter, indicating, power                   | 5.1   | I&C             |
| PIT  | Transmitter, indicating, pressure                | 5.1   | I&C             |
| QIT  | Transmitter, indicating, quantity                | 5.1   | I&C             |
| RIT  | Transmitter, indicating, radiation               | 5.1   | I&C             |
| XIT  | Transmitter, indicating, special                 | 5.1   | I&C             |
| SIT  | Transmitter, indicating, speed                   | 5.1   | I&C             |
| TIT  | Transmitter, indicating, temperature             | 5.1   | I&C             |
| KIT  | Transmitter, indicating, time                    | 5.1   | I&C             |
| VIT  | Transmitter, indicating, vibration               | 5.1   | I&C             |
| EIT  | Transmitter, indicating, voltage                 | 5.1   | I&C             |
| WIT  | Transmitter, indicating, weight or force         | 5.1   | I&C             |
| LT   | Transmitter, level                               | 5.1   | I&C             |
| MT   | Transmitter, moisture                            | 5.1   | I&C             |
| JT   | Transmitter, power                               | 5.1   | I&C             |
| JWHT | Transmitter, power, watt-hour                    | 5.1   | I&C             |
| YT   | Transmitter, presence or state                   | 5.1   | I&C             |
| PT   | Transmitter, pressure                            | 5.1   | I&C             |
| 77   | Transmitter, Pulse                               | 803.1 | EI Utility Dwgs |
| QT   | Transmitter, quantity                            | 5.1   | I&C             |
| RT   | Transmitter, radiation                           | 5.1   | I&C             |
| ART  | Transmitter, recording, analyzer                 | 5.1   | I&C             |
| BRT  | Transmitter, recording, burner                   | 5.1   | I&C             |
| IRT  | Transmitter, recording, current                  | 5.1   | I&C             |
| ZDRT | Transmitter, recording, deviation                | 5.1   | I&C             |
| PDRT | Transmitter, recording, differential pressure    | 5.1   | I&C             |
| TDRT | Transmitter, recording, differential temperature | 5.1   | I&C             |
| FRT  | Transmitter, recording, flow                     | 5.1   | I&C             |
| WDRT | Transmitter, recording, force differential       | 5.1   | I&C             |
| LRT  | Transmitter, recording, level                    | 5.1   | I&C             |
| ZRT  | Transmitter, recording, position                 | 5.1   | I&C             |
| JRT  | Transmitter, recording, power                    | 5.1   | I&C             |
| PRT  | Transmitter, recording, pressure                 | 5.1   | I&C             |
| QRT  | Transmitter, recording, quantity                 | 5.1   | I&C             |
| RRT  | Transmitter, recording, radiation                | 5.1   | I&C             |
| SRT  | Transmitter, recording, speed                    | 5.1   | I&C             |
| TRT  | Transmitter, recording, temperature              | 5.1   | I&C             |
| KRT  | Transmitter, recording, time                     | 5.1   | I&C             |

| ID    | Description <--Sorted by                   | Ref*   | Discipline*     |
|-------|--|--------|-----------------|
| VRT   | Transmitter, recording, vibration analysis | 5.1    | I&C             |
| ERT   | Transmitter, recording, voltage            | 5.1    | I&C             |
| WRT   | Transmitter, recording, weight or force    | 5.1    | I&C             |
| XT    | Transmitter, special                       | 5.1    | I&C             |
| ST@   | Transmitter, speed                         | 5.1mod | I&C             |
| TT    | Transmitter, temperature                   | 5.1    | I&C             |
| KT    | Transmitter, time                          | 5.1    | I&C             |
| KQT   | Transmitter, time, totalized               | 5.1    | I&C             |
| VT    | Transmitter, vibration                     | 5.1    | I&C             |
| ET    | Transmitter, voltage                       | 5.1    | I&C             |
| WT    | Transmitter, weight or force               | 5.1    | I&C             |
| ZT    | Transmitter, zone or position              | 5.1    | I&C             |
| TRP   | Trap                                       | 803.1  | Mech            |
| GT    | Trap, grease                               | LANL   | Mech            |
| TS    | Trap, steam                                | LANL   | Mech            |
| TRUCK | Truck                                      | LANL   | Shop            |
| CRT   | Tube, cathode ray                          | 803.1  | M&TE            |
| TSD   | Turbine, steam driven                      | LANL   | Mech            |
| TTT   | Turntable                                  | LANL   | C/S/Arch        |
| UPS   | Uninterruptible power supply               | 1100   | Elec            |
| XRAY  | Unit, security, x-ray                      | 803.1  | I&C             |
| V     | Valve                                      | 803.1  | Mech            |
| AOBV  | Valve, ball, air-operated                  | LANL   | Mech            |
| BVT   | Valve, ball, trunion                       | LANL   | Mech            |
| VB    | Valve, block                               | LANL   | Mech            |
| VBH   | Valve, block, hydrant                      | LANL   | Mech            |
| VBW   | Valve, block, water                        | LANL   | Mech            |
| VBG   | Valve, burner, gas                         | LANL   | Mech            |
| VBO   | Valve, burner, oil                         | LANL   | Mech            |
| VC    | Valve, check                               | LANL   | Mech            |
| ZDCV  | Valve, control, deviation                  | 5.1    | Mech            |
| PDCV  | Valve, control, differential pressure      | 5.1    | Mech            |
| TDCV  | Valve, control, differential temperature   | 5.1    | Mech            |
| FCV   | Valve, control, flow                       | 5.1    | Mech            |
| WCV   | Valve, control, force                      | 5.1    | Mech            |
| WDCV  | Valve, control, force differential         | 5.1    | Mech            |
| FICV  | Valve, control, indicating, flow           | 5.1    | Mech            |
| LCV   | Valve, control, level                      | 5.1    | Mech            |
| PCV   | Valve, control, pressure                   | 5.1    | Mech            |
| SCV   | Valve, control, speed                      | 5.1    | Mech            |
| TCV   | Valve, control, temperature                | 5.1    | Mech            |
| KCV   | Valve, control, timed                      | 5.1    | Mech            |
| ZCV   | Valve, control, zone or position           | 5.1    | Mech            |
| 20    | Valve, Electrically Operated               | 803.1  | EI Utility Dwgs |
| VABG  | Valve, gate, aeration basin                | LANL   | Mech            |
| VEQG  | Valve, gate, equalization basin            | LANL   | Mech            |
| KV    | Valve, key, natural gas                    | LANL   | Mech            |
| MS    | Valve, main steam                          | LANL   | Mech            |
| VM    | Valve, motor-operated                      | LANL   | Mech            |
| OSY   | Valve, Outside Screw & Yoke                | ASME   | Fire Prot       |
| PIV   | Valve, post indicating                     | LANL   | Fire Prot       |
| PIVA  | Valve, post indicating, annunciated        | LANL   | Fire Prot       |
| VPR   | Valve, pressure reducing                   | LANL   | Mech            |
| RVS   | Valve, regulator, steam                    | LANL   | Mech            |

**Sect 230 –Equipment & Component Function IDs – Att.1 Description Sort**

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| ID  | Description <--Sorted by                        | Ref* | Discipline* |
|-----|---|------|-------------|
| PRV | Valve, relief, pressure (liquid service)        | LANL | Mech        |
| PSV | Valve, safety, pressure (steam-air-gas service) | 5.1  | Mech        |
| SOV | Valve, solenoid                                 | LANL | Mech        |
| VAV | Variable Air Volume box                         | LANL | Mech        |
| VP  | Vessel, pressure                                | LANL | Mech        |
| WA  | Washer, air                                     | LANL | Mech        |
| DWS | Water softener                                  | LANL | Mech        |
| DNZ | Water unit, deionized                           | LANL | Mech        |
| WGS | Weir gate, sludge                               | LANL | C/S/Arch    |
| EWM | Welder, electric                                | LANL | Shop        |
| AW  | Well, analyzer                                  | 5.1  | I&C         |
| BW  | Well, burner                                    | 5.1  | I&C         |
| LW  | Well, level                                     | 5.1  | I&C         |
| RW  | Well, radiation                                 | 5.1  | I&C         |
| TW  | Well, thermal (thermowell)                      | 5.1  | I&C         |
| WW  | Wig-wag   | LANL | C/S/Arch    |
| TQW | Wrench, torque                                  | LANL | M&TE        |

M&amp;TE = Measuring &amp; Test Equip

**\* References (sources):**

ASME Y14.38-1999  
 ASPE – Am Soc Plumbing Engrs  
 IEEE Std 803.1-1992  
 IEEE Std 1015-1997  
 IEEE Std 1100-1999  
 ISA 5.1-1992 (modified with @ suffix when noted)  
 LANL historical  
 NECA 100-1999  
 NFPA 170-2006

The “Discipline” indicator represents the engineering discipline most commonly associated with the ID. This is included to aid ID selection, particularly in Attachment 2 which is sorted by discipline first; however, this discipline categorization does not preclude using the acronym for disciplines other than that indicated.